

Amendments to the Specification

Please replace the paragraph beginning on page 6, line 17, with the following amended paragraph:

These and other advantages are realized in another form by a user radio for use in a communication system having remote power amplifier linearization. The user radio includes a power amplifier linearizer adapted to apply a transfer function to a modulated data stream and generate a linearized data stream. A power amplifier is configured to amplify the linearized data stream and generate a communication ~~signal~~ signal. A receiver section is adapted to receive commands from outside the user radio via wireless communication. A controller is coupled to the receiver and the power amplifier linearizer. The controller is configured to adjust the transfer function in response to the commands so that the power amplifier becomes remotely linearized.

Please replace the paragraph beginning on page 8, line 9, with the following amended paragraph:

FIG. 1 shows a simplified block diagram of a point to multipoint communication system 20 with which one embodiment of the present invention may be adapted to operate. Communication system 20 includes a hub radio 22 and any number of user radios 24. Typically, communication system 20 will include many user radios 24 for each hub radio 22, but this is not a requirement. Hub radio 22 communicates with user radios 24 over a forward link 26 and a reverse link 28. Nothing requires user radios 24 to be able to communicate with each other. Hub radio 22 and/or user radios 24 may be ~~either~~ mobile, portable, or stationary.

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Please replace the paragraph beginning on page 14, line 24, with the following amended paragraph:

The baseband signal generated by RF section 90 is routed to a first input of a phase rotator 92. Phase rotator 92 is used to close a carrier tracking loop that allows receiver section 44 to match and track the carrier frequency used by hub radio 22 (FIG. 1). The frequency used by hub radio 22 is desirably ~~well-matched~~ well matched before data may be successfully extracted from communication signal 30".

Please replace the paragraph beginning on page 16, line 12, with the following amended paragraph:

Modulated data stream 116 is routed to an optional power amplifier linearizer 118. Power amplifier linearizer 118 imposes a ~~locally-determined~~ locally determined transfer function on modulated data stream 116 and thereby generates a linearized data stream 120 supplied to a digital-to-analog (D/A) converter 122. An analog output from digital-to-analog converter 122 passes to an up-conversion section 124. After combining separate complex signals into a single up-converted analog signal, the output from up-conversion section 124 is amplified in a power amplifier 126. Power amplifier 126 amplifies linearized data stream 120 and generates communication signal 30", which is transmitted to user radios 24 over forward links 26 (FIG. 1) in the assigned time slots 34 (FIG. 2).